

Agriculture and Food Research Initiative Competitive Grants Program

Childhood Obesity Prevention

FY 2013 Request for Applications



United States
Department of
Agriculture

National Institute
of Food and
Agriculture

**NATIONAL INSTITUTE OF FOOD AND AGRICULTURE
U.S. DEPARTMENT OF AGRICULTURE**

**AGRICULTURE AND FOOD RESEARCH INITIATIVE
COMPETITIVE GRANTS PROGRAM
CHILDHOOD OBESITY PREVENTION PROGRAM**

INITIAL ANNOUNCEMENT

CATALOG OF FEDERAL DOMESTIC ASSISTANCE: This program is listed in the Catalog of Federal Domestic Assistance (CFDA) under 10.310.

DATES: Applications must be submitted via Grants.gov by 5 p.m. ET on the deadline date indicated in the Program Area Descriptions section beginning in Part I, C. See Part IV, F “Other Submission Requirements” for a full description of what it means to submit an application on time. Applications received after the deadline will normally not be considered for funding. Comments regarding this request for applications (RFA) are requested within 6 months from the issuance of this notice. Comments received after this date will be considered to the extent practicable.

STAKEHOLDER INPUT: The National Institute of Food and Agriculture (NIFA) is requesting comments regarding this RFA from any interested party. These comments will be considered in the development of the next RFA for the program, if applicable, and will be used to meet the requirements of section 103(c)(2) of the Agricultural Research, Extension, and Education Reform Act of 1998 (7 U.S.C. 7613(c)(2)). This section requires the Secretary to solicit and consider input on a current RFA from persons who conduct or use agricultural research, education, and extension for use in formulating future RFAs for competitive programs. Written stakeholder comments directed toward this RFA should be submitted in accordance with the deadline set forth in the DATES portion of this notice.

Written stakeholder comments should be submitted by mail to: Policy and Oversight Division; Office of Grants and Financial Management; National Institute of Food and Agriculture; USDA; STOP 2299; 1400 Independence Avenue, SW; Washington, DC 20250-2299; or via e-mail to: Policy@nifa.usda.gov (This e-mail address is intended only for receiving comments regarding this RFA and not for requesting information or forms.) In your comments, please state that you are responding to the Agriculture and Food Research Initiative Childhood Obesity Prevention RFA. Stakeholder comments received in response to the fiscal year (FY) 2011 Foundational RFA and FY 2012 Challenge Area RFAs are discussed in Part I, B. of this RFA.

EXECUTIVE SUMMARY: The U.S. Department of Agriculture (USDA) established the Agriculture and Food Research Initiative (AFRI) under which the Secretary of Agriculture may make competitive grants for fundamental and applied research, education, and extension to address food and agricultural sciences (as defined under section 1404 of the National Agricultural Research, Extension, and Teaching Policy Act of 1977 (NARETPA) (7 U.S.C. 3103)), as amended, in six priority areas. The six priority areas include: 1) plant health and production and plant products; 2) animal health and production and animal products; 3) food safety, nutrition, and health; 4) renewable energy, natural resources, and environment; 5) agriculture systems and technology; and 6) agriculture economics and rural communities.

NOTE: This RFA is being released prior to the passage of an Appropriations Act for FY 2013. Enactment of an Appropriations Act may affect the overall level of funding for the Agriculture and Food Research Initiative (AFRI) program. Therefore, NIFA reserves the right to amend, delete, or alter any programs outlined in this RFA.

In FY 2013, subject to availability of funds, approximately \$264 million will be available to support the AFRI program. Of this amount, no less than 30 percent will be made available to fund integrated research, education, and Extension programs.

For FY 2013, subject to availability of funds, it is anticipated that approximately \$5 million will be made available to support new awards within the AFRI Childhood Obesity Prevention Area. In the Childhood Obesity Prevention Challenge Area, specific program areas are designed to achieve the long-term outcomes of reducing the prevalence of overweight and obesity among children and adolescents.

Project types supported by AFRI within this Challenge Area will propose multi-function Integrated Research, Education, and Extension Projects, and Food and Agricultural Science Enhancement (FASE) Grants. **A successful integrated project will include all three functions of the agricultural knowledge system (i.e., research, education, and extension) within a project, focused around a problem or issue.** This RFA identifies research, education, extension and integrated program objectives, eligibility criteria, and matching requirements for each project type.

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PART I – FUNDING OPPORTUNITY DESCRIPTION

A. Legislative Authority and Background

Section 7406 of the Food, Conservation, and Energy Act of 2008 (FCEA) (Pub. L. 110-246) amends section 2(b) of the Competitive, Special, and Facilities Research Grant Act (7 U.S.C. 450i(b)) to authorize the Secretary of Agriculture to establish the Agriculture and Food Research Initiative (AFRI); a competitive grant program to provide funding for fundamental and applied research, education, and extension to address food and agricultural sciences. Grants shall be awarded to address priorities in United States agriculture in the following areas:

1. Plant health and production and plant products;
2. Animal health and production and animal products;
3. Food safety, nutrition, and health;
4. Renewable energy, natural resources, and environment;
5. Agriculture systems and technology; and
6. Agriculture economics and rural communities.

To the maximum extent practicable, the National Institute of Food and Agriculture (NIFA), in coordination with the Under Secretary for Research, Education, and Economics (REE), will make grants for high priority research, education, and extension, taking into consideration, when available, the determinations made by the National Agricultural Research, Extension, Education, and Economics Advisory Board (NAREEEAB) pursuant to section 2(b)(10) of the Competitive, Special, and Facilities Research Grant Act (7 U.S.C. 450i(b)(10)), as amended. The authority to carry out this program has been delegated to NIFA through the Under Secretary for REE.

B. Purpose and Priorities

AFRI research, education, and Extension grants address problems of agricultural sustainability at national, regional, and multi-state levels. Issues include farm efficiency and profitability, ranching, renewable energy, forestry (both urban and agroforestry), aquaculture, rural communities and entrepreneurship, human nutrition, food safety, physical and social sciences, home economics and rural human ecology, biotechnology, and conventional breeding. Through these grants, AFRI advances knowledge in both fundamental and applied sciences important to agriculture. They also allow AFRI to support education and Extension activities that deliver science-based knowledge to people, allowing them to make informed practical decisions. This AFRI RFA is announcing funding opportunities for Integrated Research, Education, and Extension projects.

AFRI promotes advances in U.S. food, agriculture and forestry. Agricultural research, however, is increasingly worldwide in scope and reach. To attain AFRI's goals for U.S. food and agriculture, applicants to Foundational or Challenge Area RFAs may include international partnerships or engagement in proposals, as appropriate. Applicants must keep in mind that while NIFA-supported international activities may contribute to global food security, as described in the U.S. Government's Feed the Future global food security initiative (www.feedthefuture.gov), any international activity proposed under AFRI (such as partnerships, exchanges, training, travel, etc.), must support AFRI's domestic program goals. Applicants must clearly describe and demonstrate how international activities proposed in applications submitted to AFRI will contribute to and support advances in American agriculture.

If international activities (e.g., partnerships, exchanges, travel, etc.) are proposed, then applicants must describe indicators that will be used to assess those activities. Appropriate indicators include, but are not limited to, those posted at the U.S. Government's Feed the Future global food security initiative website (www.feedthefuture.gov/progress).

Stakeholder Input

The National Institute of Food and Agriculture (NIFA) requests comments regarding this RFA from any interested party. These comments will be considered in the development of the next RFA for the program, if applicable, and will be used to meet the requirements of section 103(c)(2) of the Agricultural Research, Extension, and Education Reform Act of 1998 (7 U.S.C. 7613(c)(2)). This section requires the Secretary to

solicit and consider input on a current RFA from persons who conduct or use agricultural research, education, and Extension for use in formulating future RFAs for competitive programs. Written stakeholder comments on this RFA should be submitted in accordance with the deadline set forth in the DATES portion of this notice.

Written stakeholder comments should be submitted by mail to: Policy and Oversight Division; Office of Grants and Financial Management; National Institute of Food and Agriculture; USDA; STOP 2299; 1400 Independence Avenue, SW; Washington, DC 20250-2299; or via e-mail to: Policy@nifa.usda.gov. (This e-mail address is intended only for receiving comments regarding this RFA and not requesting information or forms.) In your comments, please state that you are responding to the AFRI Competitive Grants Program – Childhood Obesity Prevention RFA.

NIFA received approximately 50 stakeholder comments relevant to the previous Childhood Obesity Prevention RFA. Most were supportive of the shift to focused challenge areas. Many, however, commented that the areas of research addressed need to be broadened. With one exception, they agreed with the importance of addressing childhood obesity, but thought other areas, especially basic nutrition science and food science, should also be addressed.

The AFRI Childhood Obesity Prevention RFA focuses on the number one nutrition-related problem in the United States. According to a new report from the Centers for Disease Control and Prevention (CDC), no state met the country's Healthy People 2010 goal to lower obesity rates to 15 percent of their population. Nine states had an obesity rate of 30 percent or higher in 2009. In comparison, no state had an obesity rate of 30 percent or more in 2000 http://www.cdc.gov/obesity/data/trends.html#State?s_cid=govD_dnpao_041. The breadth of potential research topics in nutrition is so broad and the available funding so limited that AFRI must prioritize. It is unlikely that there is a single topic or combination of topics that would be as compelling or have the potential impact as those in the current challenge area in obesity prevention. While NIFA recognizes the benefits of basic research, the trend in this RFA has been to focus on finding effective interventions to prevent obesity through applied research; translational research; and integrated research, education, and Extension projects that can result in actionable strategies.

The new direction of AFRI in 2013 encourages a variety of project types to address the problem of childhood obesity—multi-function Integrated Research, Education, and Extension projects that emphasize health disparities and cultural influences. The FY 2013 AFRI Childhood Obesity Prevention RFA calls for a focus on behavioral and environmental approaches to obesity prevention in children, but the particular issues to be addressed and how to address them will be developed by the investigator(s). It is intended that the focus of the Childhood Obesity Prevention RFA will not change through 2015. We anticipate that the age group will remain between ages 2 and 19 years.

Background

USDA has integrated the six AFRI priority areas (outlined in Part I, A) with a focus on grand societal challenges. Leadership in the scientific community has been calling on multidisciplinary efforts that integrate biological and social science work to help solve these societal challenges. NIFA has the unique capacity to integrate research, education, and Extension to enhance the impact of scientific work. USDA science will support the following challenges:

1. Keep American agriculture competitive while ending world hunger;
2. Improve nutrition and end child obesity;
3. Improve food safety for all Americans;
4. Secure America's energy future; and
5. Mitigate and adapt to climate variability and change.

In FY 2010, NIFA released several AFRI RFAs to address these challenges at a meaningful scale and to achieve outcomes of relevance to the societal challenges. These RFAs addressed each of the five challenges, enabled the transition and refocusing of grants made previously under AFRI, and provided pre- and postdoctoral fellowship opportunities. These RFAs solicited applications for larger awards for longer periods of time to enable greater collaboration among institutions and organizations, and integration of basic and applied research with deliberate education and Extension programs.

In FY 2013, AFRI will solicit projects addressing the above challenges through five separate Challenge Area RFAs, each addressing one of the challenges. AFRI will also support Research and Integrated Project grants in the six AFRI priority areas to continue building a foundation of knowledge in fundamental and applied food and agricultural sciences critical for solving current and future societal challenges. These six foundational program areas are being announced in a single, separate RFA. In addition, funding opportunities for pre- and postdoctoral fellowship grants will be offered in a single, separate RFA.

Childhood Obesity Prevention Challenge Area

The Childhood Obesity Prevention RFA focuses on the societal challenge to end child obesity. In the Childhood Obesity Prevention Challenge Area RFA, specific program areas are designed to achieve the long-term outcome of reducing the prevalence of overweight and obesity among children and adolescents. Project types supported by AFRI within this RFA include multi-function Integrated Research, Education, and Extension projects and FASE grants.

NIFA may also solicit applications for AFRI funds through other announcements, including supplemental AFRI RFAs or RFAs issued in conjunction with other agencies. Such announcements will be made public in the same manner as this announcement.

C. Program Area Description

Background

This crosscutting program addresses the priority of childhood obesity prevention. Obesity is the number one nutritional problem in America. According to the National Health and Nutrition Examination Survey administered by the U.S. Centers for Disease Control and Prevention, prevalence rates for overweight and obesity in children and adolescents have tripled in the past 30 years. In 2009 - 2010 almost 17% of children and adolescents aged 2–19 years were obese (defined as having a Body Mass Index above the 95th percentile of the sex-specific growth chart). Low income children and adolescents are more likely to be obese than their higher income counterparts, but the relationship is not consistent across race and ethnicity groups. (<http://www.cdc.gov/nchs/data/databriefs/db82.pdf> and <http://www.cdc.gov/obesity/childhood/data.html>). At the same time, the U.S. food supply contains an abundant amount of foods that are high in energy with appealing taste, but which are low in nutrient content. Food is an integral part of the process that leads to obesity and USDA has a unique responsibility for the food system in the United States.

The Secretary of Agriculture and NIFA are committed to preventive nutrition and physical activity strategies that will reduce obesity and related chronic diseases, and thereby lower healthcare costs. The goal of these strategies is to improve the health and nutrition of America's children.

The Integrated Approaches to Prevent Childhood Obesity program area addresses the following priorities within the 2008 Farm Bill: C. Food Safety, Nutrition, and Health - Nutrition, food safety and quality, and health (sub priorities ii. links between diet and health; iii. bioavailability of nutrients).

The AFRI Childhood Obesity Prevention Challenge Area directly aligns with the Research, Education, and Economics Action Plan (http://www.ree.usda.gov/ree/news/USDA_REE_Action_Plan_02-2012_2.pdf) and specifically addresses Goal 4 Nutrition and Childhood Obesity.

To meet these identified needs, the long-term outcome of the Childhood Obesity Prevention Challenge Area is to reduce the prevalence of overweight and obesity among children and adolescents ages 2–19 years.

Projects are expected to address the stated Program Area Priority, which collectively contributes to the achievement of the following goals:

- Generation of new knowledge about behavioral, social, cultural, and environmental factors that influence excessive weight gain by children and adolescents.
- Development of effective behavioral, social, and environmental interventions to increase dietary intakes of fruits and vegetables; increase the variety of vegetables in the diet and decrease

dietary intakes of foods high in solid fats and added sugars; increase the number of children who meet guidelines for television viewing and computer use; increase physical activity in children; and ultimately to decrease the proportion of children and adolescents who are overweight or obese. The development of new, more effective evaluation tools may be necessary.

- Expansion of interventions proven effective and assessment of their impact.
- An increase in the number of parents, caretakers, educators, practitioners, and researchers who receive the training and effectively model behaviors necessary to address the complex problem of childhood obesity prevention.

In order to achieve these program goals, the Childhood Obesity Prevention Challenge Area will address several focused objectives. In FY 2011, pre-adolescent and early adolescent children (ages 9–14 years) were targeted. In FY 2012, adolescents ages 15–19 years were targeted. Children and adolescents ages 2–19 years will be targeted in FY 2013–FY 2015.

Because the goals of the AFRI Childhood Obesity Prevention Challenge Area include bringing about behavior change as well as improving knowledge, in FY 2013 this Challenge Area is only accepting applications for integrated research, education, and Extension projects. **A successful integrated project will include the three functions of the agricultural knowledge system (i.e., research, education, and Extension) within a project, focused around a problem or issue.** A project is optimally integrated if the components complement one another and are truly necessary for the ultimate success of the project or program. For more information on Integrated Project proposals see Part II, C. For eligibility requirements for Integrated Projects, see Part III, A.

1. **Integrated Approaches to Prevent Childhood Obesity**

Program Area Code – A2101

Application Deadline – April 11, 2013 (5 p.m. ET)

Proposed Budget Requests –

- Standard grants must not exceed \$1 million per year (\$5 million total, including indirect costs) for project periods of up to 5 years. Program anticipates making up to three awards.
- FASE grants must adhere to the guidelines outlined beginning in Part II, D. 2 and 3.
- Requests exceeding the budgetary guidelines will not be reviewed.

Requested Project Type – ~~Integrated~~ Projects

Requested Grant Type – Standard, Conference, and FASE Grants

Program Area Contact – Dr. Deirdra Chester (202) 401-5178 or dnchester@nifa.usda.gov or Dr. Jane Clary (202) 720-3891 or jclary@nifa.usda.gov

Program Area Priority – Applicants must address the following:

- Generate new knowledge of the behavioral (not metabolic), social, cultural, and/or environmental factors, including food environment, that influence childhood obesity and use this information to develop and implement effective family, peer, community, and/or school-based interventions for preventing overweight and obesity and promoting healthy behaviors in children and adolescents (ages 2–19 years). This knowledge should have a strong emphasis on health literacy and health disparities. Behavior should be defined in a broad sense to include individual patterns of behavior and how individuals respond to others, the environment, and policy. **Note that this program focuses on prevention of weight gain and will not fund projects to promote weight loss.**

Other Program Area Requirements:

- All applications must adhere to the requirements beginning in Part IV.
- We strongly encourage applications from and collaborations with minority-serving institutions, USDA Experimental Program for Stimulating Competitive Research (EPSCoR) institutions and/or small or mid-sized institutions that historically have not been as competitive.
- We will give high priority to projects that involve populations eligible for USDA nutrition education and food assistance programs (e.g., Expanded Food and Nutrition Education Program (EFNEP), Supplemental Nutrition Assistance Program (SNAP), School Meals programs, etc.). The rationale for the selection of any population for intervention should be documented.

- We understand that some projects may require the development and testing of new assessment tools.
- All projects should address some aspect of food consumption or food access because food is an integral part of the development of obesity.
- Because obesity is such a multifaceted problem, we expect that project teams will have appropriate training and experience in multiple disciplines. Nutrition expertise is essential.
- Projects are expected to lead to measurable, documented changes in learning, actions, or conditions in relation to obesity prevention.
- Applications that address interventions for weight loss or target audiences other than children ages 2–19 years (except as noted above) are not suitable for submission under this priority and will not be reviewed.

PART II – Award Information

A. Available Funding

There is no commitment by USDA to fund any particular application or to make a specific number of awards. In FY 2013, subject to availability of funds, approximately \$264 million will be available to support the AFRI Program. Of this amount, no less than 30 percent will be made available to fund integrated research, education, and extension programs. Of the AFRI funds allocated to research activities, section 7406 of the FCEA directs 60 percent of the grants for fundamental (or basic) research and 40 percent of the grants for applied research. Of the AFRI funds allocated to fundamental research, not less than 30 percent will be directed toward research by multidisciplinary teams. It is anticipated that no less than 10 percent of the FY 2013 funds will be made available for Food and Agricultural Science Enhancement (FASE) Grants, and no more than two percent of the funds available for fundamental research will be made available for Equipment Grants.

NOTE: This RFA is being released prior to the passage of an Appropriations Act for FY 2013. Enactment of Continuing Resolution or an Appropriations Act may affect the overall level of funding for the AFRI program. Therefore, NIFA reserves the right to amend, delete, or alter any programs outlined in this RFA.

In FY 2013, subject to availability of funds it is anticipated that approximately \$5 million will be made available to support new awards within the Childhood Obesity Prevention Challenge Area within AFRI.

Awards issued as a result of this RFA will have designated the Automated Standard Applications for Payment System (ASAP), operated by the Department of Treasury's Financial Management Service, as the payment system for funds. For more information see www.nifa.usda.gov/business/method_of_payment.html.

B. Types of Applications

1. New Application

A new application is an application that has not been previously submitted to AFRI. All new applications will be reviewed competitively using the evaluation criteria described in Part V – Application Review Requirements.

2. Resubmitted Application

A resubmitted application is an application that has previously been submitted to AFRI, but was not funded. Project Directors (PD) must respond to the previous panel review summary; see Response to Previous Review, Part IV, C. 3. c. Resubmitted applications must be received by the relevant due dates, will be evaluated in competition with other pending applications in the appropriate area to which they are assigned, and will be reviewed according to the same evaluation criteria (Part V, B.) as New Applications. Applications which appear to be resubmissions (regardless of the designation) are regarded as such by the program and the panel and compete on the same basis with all other applications submitted to the Program Area at the same time.

Applicants submitting to Program Areas from the FY 2011 AFRI Childhood Obesity Prevention Challenge Area may resubmit applications to the appropriate Program Area Priority, if offered in FY 2013, within this RFA.

All awards will be made as standard awards. A standard award is an award instrument by which the Department agrees to support a specified level of effort for a predetermined project period without the announced intention of providing additional support at a future date. Conference, Sabbatical, Equipment, and Seed Grants will also be made as standard awards.

C. Project Types

Applications must propose one of the project types specified with the Program Area(s) and select the appropriate grant type for the application within the constraints of the grant types solicited. The project and grant types solicited in the AFRI Childhood Obesity Prevention Challenge Area are indicated in the table below and described in the Program Area Descriptions beginning in Part I, C.

Project and Grant Types Solicited by Childhood Obesity Prevention Challenge Area										
		Grant Type								
		Standard	CAP	Planning/ Coordination	Conference	Food and Agricultural Science Enhancement (FASE) Grants ¹				
						New Investigator	Strengthening Grants			
							Sabbatical	Equipment	Seed	CAP
Project Type	Research									
	Education									
	Extension									
	Integrated ²	✓			✓	✓	✓	✓	✓	✓

¹ FASE Grants have special eligibility requirements. Refer to Part II, D. 3 for eligibility and additional information.

1. Integrated Research, Education, and Extension Projects

An Integrated Project includes all three functions of the agricultural knowledge system (i.e., research, education, and Extension) within a project, focused around a problem or issue. The functions addressed in the project should be interwoven throughout the life of the project and act to complement and reinforce one another. The functions should be interdependent and necessary for the success of the project.

- The proposed **research** component of an Integrated Project should address knowledge gaps that are critical to the development of practices and programs to address the stated problem.
- The proposed **education** (teaching and teaching-related) component of an Integrated Project should develop human capital relevant to overall program goals for U.S. agriculture. An education or teaching activity is formal classroom instruction, laboratory instruction, and practicum experience in the food and agricultural sciences and other related matters, such as faculty development, student recruitment and services, curriculum development, instructional materials and equipment, and innovative teaching methodologies.

Educational activities may include any of the following:

- conducting classroom and laboratory instruction and practicum experience;
- faculty research internships for curricula development;
- cutting-edge agricultural science and technology curriculum development;
- innovative teaching methodologies;
- instructional materials development;
- education delivery systems;
- student experiential learning (student led-research, internships, externships, clinics);
- student learning styles and student-centered instruction;
- student recruitment and retention efforts;
- career planning materials and counseling;
- pedagogy;
- faculty development programs;
- development of modules for on-the-job training;
- providing knowledge and skills for professionals creating policy or transferring to the agriculture workforce;

- faculty and student exchanges; and
- student study abroad and international research opportunities relevant to overall program goals for U.S. agriculture.

Educational activities must show direct alignment with increasing technical competency in AFRI priority area(s) to ensure that U.S. agriculture remains globally competitive in the knowledge age.

Educational components must address one or two of the following key strategic actions:

- Train students for associate, baccalaureate, master's or doctoral degrees; and/or
- Prepare K-12 teachers and higher education faculty to understand and present food and agricultural sciences.

These projects should synthesize and incorporate a wide range of the latest relevant research results. Note that routine use of graduate students and postdoctoral personnel to conduct research is not considered education for the purposes of this program.

- c) The proposed **Extension** component of an Integrated Project should conduct programs and activities that deliver science-based knowledge and informal educational programs to people, enabling them to make practical decisions. Program delivery may range from community-based to national audiences and use communication methods from face-to-face to electronic or combinations thereof. Extension Projects may also include related matters, such as certification programs, in-service training, client recruitment and services, curriculum development, instructional materials and equipment, and innovative instructional methodologies appropriate to informal educational programs.

AFRI encourages projects that develop content and programs suitable for delivery through the Cooperative Extension System's eXtension Initiative. Funds may be used to contribute to existing Communities of Practice (CoP) or to form a new CoP. Projects must align with the eXtension vision, mission, and values. A letter of acknowledgement from eXtension is required, and a letter of support may be required from one or more of the CoPs. For detailed guidance on how to partner with eXtension, go to <http://create.extension.org/node/2057>.

Extension activities may address, but are not limited to, the following key strategic actions:

- Support informal education to increase food, agricultural, and health literacy of youth and adults;
- Promote science-based agricultural literacy by increasing understanding and use of food and agricultural science data, information, and programs;
- Build science-based capability in people to engage audiences and enable informed decision making;
- Develop new applications of instructional tools and curriculum structures that increase technical competency and ensure global competitiveness;
- Offer non-formal learning programs that increase accessibility to new audiences at the rate at which new ideas and technologies are tested and/or developed at the community-scale; and
- Develop programs that increase public knowledge and citizen engagement leading to actions that protect or enhance the nation's food supply, agricultural productivity, environmental quality, community vitality, food security and/or public health and well-being.

These projects should synthesize and incorporate a wide range of the latest relevant research results. Please note that research-related activities, such as publication of papers or speaking at scientific meetings, are not considered Extension for the purposes of this program.

Integrated Projects aim to resolve today's problems through the application of science-based knowledge and address needs identified by stakeholders. Integrated Projects clearly identify anticipated outcomes and have a plan for evaluating and documenting the success of the project.

These projects should lead to measurable, documented changes in learning, actions, or conditions in an identified audience or stakeholder group.

Integrated Project applicants are encouraged to review www.nifa.usda.gov/funding/integrated/integrated.html for additional information on integrated programs, including tips for writing Integrated Project applications and an example of an integrated application.

D. Grant Types

Applications must propose one of the project types specified within the Program Areas and select the appropriate grant type for the application within the constraints of the grant types solicited.

1. Standard Grants

Standard Grants support targeted original scientific Research, Education, Extension, or Integrated Projects.

2. Conference Grants

Conference Grants support scientific meetings that bring together scientists to identify research, education, and extension needs, update information, or advance an area of science. These activities are recognized as integral parts of scientific efforts. Support for a limited number of meetings covering subject matter encompassed by this solicitation will be considered for partial or, if modest, total support. Individual conference grants are not expected to exceed \$50,000 for one.

3. Food and Agricultural Science Enhancement Grants

Food and Agricultural Science Enhancement (FASE) Grants strengthen science capabilities in research, education, and extension programs. FASE Grants are designed to help institutions develop competitive projects, and to attract new scientists and educators into careers in high-priority areas of National need in agriculture, food, and environmental sciences. The FASE Grants provide support for Pre- and Postdoctoral Fellowships which will be solicited in a separate NIFA Fellowships Grant Program, New Investigators, and Strengthening Grants. Specific eligibility requirements for these grants are described below.

a. Pre- and Postdoctoral Fellowship Grants

Doctoral candidates and individuals who will soon receive or have recently received their doctoral degree are encouraged to submit an application for a Pre- or Postdoctoral Fellowship Grant, as appropriate, for research, education, extension, or integrated activities to the NIFA Fellowship Grants program. Program information, including the anticipated release date, is available at www.nifa.usda.gov/funding/afri/afri.html.

b. New Investigator Grants

An individual who is beginning his/her career, does not have an extensive scientific publication record, and has less than five years postgraduate, career-track experience is encouraged to submit an application for a New Investigator Grant for research, education, and extension activities. The new investigator may not have received competitively awarded Federal research funds with the exception of pre- or postdoctoral grants or USDA NRI or AFRI Seed Grants. The application must contain documentation that lists all prior Federal support.

c. Strengthening Grants

These funds are expected to enhance institutional capacity with the goal of leading to future funding in the project area, as well as strengthen the competitiveness of the investigator's research, education, and extension activities. Strengthening Grants consist of Standard Grant types (both single-function and multi-function projects) as well as Seed Grants, Equipment Grants, and Sabbatical Grants.

1) **Strengthening Grant Eligibility**

Strengthening grants are limited to 1) small and mid-sized or minority-serving degree-granting institutions that previously had limited institutional success for receiving Federal funds or 2) State Agricultural Experiment Stations or degree-granting institutions eligible for USDA Experimental Program for Stimulating Competitive Research (EPSCoR) funding and are eligible for reserved strengthening funds for Research, Education, Extension, and Integrated Project grants. See Figure 1 following Part VIII to assist with determining eligibility for Strengthening Grants.

a) **EPSCoR States**

See Part VIII H. for EPSCoR definition. Every year, NIFA determines the states that are eligible for USDA EPSCoR funding. Since this is the third year for the AFRI program and complete award data is not available for FY 2012, the eligibility determinations are based on the data obtained from grants made through the AFRI program from FY 2009 through FY 2011. For FY 2013, the following States meet the requirements for this category:

FY 2013 USDA EPSCoR States		
Alabama	Montana	South Carolina
Alaska	Nevada	Utah
Connecticut	New Hampshire	Vermont
Idaho	New Mexico	West Virginia
Kentucky	North Dakota	Wyoming
Maine	Oklahoma	
Mississippi	Rhode Island	

Other entities eligible for USDA EPSCoR funds in FY 2013 include the following United States commonwealths, territories, possessions and their successors, and the District of Columbia:

Other Entities eligible for USDA EPSCoR Funds	
American Samoa	Northern Mariana Islands
District of Columbia	Puerto Rico
Guam	Virgin Islands of the U.S.
Micronesia	

a) **Small and mid-sized institutions.** See Part VIII H. for a definition.

b) **Minority-serving institutions.** See Part VIII H. for a definition.

Applicants applying under this category should indicate the current percentage of applicable minority students enrolled at the institution in a cover letter. A list of post-secondary minority-serving institutions can be found at www2.ed.gov/about/offices/list/ocr/edlite-minorityinst.html.

c) **Limited institutional success.** See Part VIII H. for a definition.

d) See Table 1 following Part VIII for an alphabetical list of the most successful institutions.

All institutions grouped under one main campus as listed in Table 1 following Part VIII, unless located in an EPSCoR state, are excluded from eligibility for all strengthening funds. The institution may petition for an exemption to this rule as described in Part III, B.

2) **Strengthening Grant Types**

An individual applicant may submit only one of the following types of strengthening applications (Sabbatical Grants, Equipment Grants, and Seed Grants) as PD this fiscal year.

a) **Sabbatical Grants**

Sabbatical Grants are to provide an opportunity for faculty to enhance their research, education, and extension capabilities by funding sabbatical leaves. Collaborative arrangements are encouraged. Grants will be limited to one year of salary and funds for travel and supplies, where justified, and are not renewable.

NIFA also encourages and will support the concept of “mini-sabbaticals” for faculty and researchers desiring short-term training to learn new techniques that will improve their competitiveness. These short-term training opportunities generally follow all of the sabbatical requirements described beginning in Part IV, C., but for a shorter duration. These grants may be used to participate in short courses offered at various research institutions.

b) **Equipment Grants**

Equipment Grants are designed to strengthen the research, education, and extension capacity of institutions by funding the purchase of one major piece of equipment. These grants are not intended to replace requests for equipment in individual project applications. Rather, they are intended to help fund items of equipment that will upgrade infrastructure. Requests for computer equipment are allowed only if the equipment is to be used in an activity integral to the proposed project. Requests for computer equipment will not be permitted if the equipment will primarily serve as a word processor or perform administrative functions.

Each request shall be limited to one major piece of equipment within the cost range of \$10,000-\$250,000 and are not renewable. The amount of Federal funding requested shall not exceed 50 percent of the cost or \$50,000, whichever is less. Unless a waiver is granted by NIFA using the criteria listed in Part III, C., it is the responsibility of the PD to secure required matching funds with non-Federal funds (see Part III, C for more information). No installation, maintenance, warranty, or insurance expenses may be paid from these grants, nor may these costs be part of the matching funds. Indirect costs are not permitted on Equipment Grant awards.

c) **Seed Grants**

Seed Grants are to provide funds to enable investigators to collect preliminary data or perform other preliminary activities in preparation for applying for future grants from AFRI. The grants are not intended to fund stand-alone projects, but rather projects that will lead to further work applicable to one of the AFRI Program Areas. Seed Grant applications proposing an Integrated Project only need to include one of the three functions (research, education, extension) and justify how this Seed Grant will allow the applicant to become competitive for future Integrated Project funding.

Seed Grants are limited to a total of \$150,000 (including indirect costs) for two year duration and are not renewable.

d) **Strengthening Standard Grants**

Standard Grant and applications that meet the eligibility requirements for Strengthening Grants are eligible for reserved strengthening funds as a Strengthening Standard Grant. The eligibility requirements only apply to the lead PD and are not required for co-PD(s) associated with the project.

E. Responsible and Ethical Conduct of Research

The responsible and ethical conduct of research (RCR) is critical for excellence, as well as public trust, in science and engineering. Consequently, education in RCR is considered essential in the preparation of future scientists. In accordance with sections 2, 3, and 8 of 7 CFR Part 3022, institutions that conduct extramural research funded by USDA must foster an atmosphere conducive to research integrity, bear

primary responsibility for prevention and detection of research misconduct and are to maintain and effectively communicate and train their staff regarding policies and procedures. In the event an application to NIFA results in an award, the AOR assures, through acceptance of the award that the institution will comply with the above requirements. Per award terms and conditions, grant recipients shall, upon request, make available to NIFA the policies and procedures as well as documentation to support the conduct of the training.

Note that the training referred to herein shall be either on-campus or the Collaborative Institutional Training Initiative (CITI) program for RCR (www.citiprogram.org/rcrpage.asp). The general content of the ethics training, at a minimum, will emphasize three key areas of research ethics: authorship and plagiarism, data and research integration and reporting misconduct. Each institution will be responsible for developing its own training system, as schools will need flexibility to develop training tailored to their specific student needs. Typically RCR education addresses the topics of: Data Acquisition and Management - collection, accuracy, security, access; Authorship and Publication; Peer Review; Mentor/Trainee Responsibilities; Collaboration; Conflict of Interest; Research Misconduct; Human Subject Research; and Use of Animals in Research.

PART III - ELIGIBILITY INFORMATION

A. Eligible Applicants

Eligible institutions for multi-functional Integrated Projects are described in paragraph #2 below.

Applicants must respond to the Program Area Priorities and deadlines found in the FY 2013 RFAs. Grant recipients may subcontract to organizations not eligible to apply provided such organizations are necessary for the conduct of the project.

1. Integrated Projects

Eligible applicants for Integrated Projects include:

- a) Colleges and universities - the terms "college" and "university" mean an educational institution in any state which 1) admits as regular students only persons having a certificate of graduation from a school providing secondary education, or the recognized equivalent of such a certificate; 2) is legally authorized within such state to provide a program of education beyond secondary education; 3) provides an educational program for which a bachelor's degree or any other higher degree is awarded; 4) is a public or other nonprofit institution; and 5) is accredited by a nationally recognized accrediting agency or association. A research foundation maintained by a college or university is eligible to receive an award under this program.
- b) 1994 Land-Grant Institutions - means one of those institutions as defined in section 532 of the Equity in Educational Land-Grant Status Act of 1994, as amended (7 U.S.C. 301 note). These institutions are commonly referred to as Tribal Colleges or Universities.
- c) Hispanic-serving Agricultural Colleges and Universities (HSACUs) - HSACUs are colleges and universities that qualify as Hispanic-serving Institutions (HSIs) and offer associate, bachelors, or other accredited degree programs in agriculture-related fields. HSACUs do not include 1862 land-grant institutions.

Pursuant to section 406 of the Agricultural Research, Extension, and Education Reform Act of 1998 (AREERA) (7 U.S.C. 7626), which authorized the Integrated Research, Education, and Extension Competitive Grant Program, all four-year HSIs are eligible to apply for integrated projects as identified in the FY 2013 AFRI RFA. Two-year HSIs may also be eligible to apply but only if the institution has been certified as a HSACU for the fiscal year in which funding is being provided.

November 15, 2012, a list of the institutions certified and therefore eligible to apply as HSACUs for grants under FY 2013 RFAs, including this RFA, was made available at http://www.nifa.usda.gov/nea/education/in_focus/hispanic_if_hispanic_HSACU.html. Institutions appearing on the FY 2013 list are granted HSACU certification by the Secretary for the period starting October 1, 2012, and ending September 30, 2013. Certifications are valid for FY 2013 only. Additional questions on HSACU eligibility can be addressed to Mr. Matthew Lockhart, Senior Policy Specialist, by email at mlockhart@nifa.usda.gov or phone at (202) 559-5088.

2. Food and Agricultural Science Enhancement Grants

The Food and Agricultural Science Enhancement (FASE) Grants have additional eligibility requirements. See Part II, D. 3 for details.

B. Request for Determination

If an applicant's institution can be considered a minority-serving institution and wishes to be considered for a Strengthening Grant (as described in Part II, D. 3. c), but does not serve one or more of the minority groups specified in the Definitions section of this RFA (see Part VIII, H), the applicant must submit to NIFA documentation supporting the request. This documentation must be submitted as part of the requestor's Letter of Intent (if required) and the application package, and must be received by NIFA by the applicable program deadline. The Secretary of Agriculture or designated individual will determine whether the group or groups identified are eligible under this program.

The Request for Determination as a minority-serving institution must be attached with the Letter of Intent (if required) and the final application. The following information must be provided in the order specified below:

1. A description of each minority group that is being submitted for determination;
2. Data or studies supporting this group's designation as a minority group; and
3. Data indicating that enrollment of the minority group(s) exceeds 50 percent of the total enrollment at the academic institution, including graduate and undergraduate and full- and part-time students.

All institutions grouped under one main campus as listed in Table 1 following Part VIII, unless located in an EPSCoR state (listed in Part II, D. 3. c. 2 a.), are excluded from eligibility for all strengthening funds. However, if any campus within a multi-campus listing can provide information demonstrating that it is administratively independent or has an independent accreditation, then the institution may petition for an exemption to this rule and request eligibility for strengthening funds. The Letter of Intent (if required) and the application must include a letter indicating how the institution is independent of the main campus, either through accreditation or administration. In addition, the letter should stipulate that the institution is eligible as a small and mid-sized or minority-serving institution due to enrollment and total federal funds received for science and engineering research and development. The letter must be signed by the Authorized Representative (AR) and included with the Letter of Intent (if required) and the completed application.

C. Cost Sharing or Matching

If **applied Research and Integrated Projects** are commodity-specific and not of national scope, the grant recipient is required to match the USDA funds awarded on a dollar-for-dollar basis from non-Federal sources with cash and/or in-kind contributions.

☀ *For Equipment Grant Applications* - Grantees are required to match 100 percent of Federal funds awarded from non-Federal sources. The Secretary may waive all or part of the matching requirement if all three of the following criteria are met: 1) applicants must be a college, university, or research foundation maintained by a college or university that ranks in the lowest one third of such colleges, universities, and research foundations on the basis of Federal research funds received (see Table 2 following Part VIII) for eligibility); 2) if the equipment to be acquired using funds from the grant costs not more than \$25,000; and 3) has multiple uses within a single research project or is usable in more than one research project. If the institution believes it is eligible for the waiver for matching funds, the budget justification must include a letter signed by the institution's AR stating this information.

PART IV – APPLICATION AND SUBMISSION INFORMATION

A. Letter of Intent Instructions

In FY 2013, a Letter of Intent **is not** required for submission of an application.

B. Electronic Application Package and Content and Form of Application Submission

Only electronic applications may be submitted via Grants.gov to NIFA in response to this RFA. **Applicants are advised to submit early to the Grants.gov system.**

New Users of Grants.gov

Prior to preparing an application, it is suggested that the PD/PI first contact an Authorized Representative (AR) (also referred to as Authorized Organizational Representative or AOR) to determine if the organization is prepared to submit electronic applications through Grant.gov. If the organization is not prepared (e.g., the institution/organization is new to the electronic grant application process through Grants.gov), then the one-time registration process must be completed PRIOR to submitting an application. It can take as much as two weeks to complete the registration process so it is critical to begin as soon as possible. In such situations the AR should go to **“Get Registered” on the Grants.gov left navigation bar (or go to www.grants.gov/applicants/get_registered.jsp) for information on registering the institution/organization with Grants.gov. A quick reference guide listing the steps is available as a 4-page PDF document at the following website: www.grants.gov/assets/Grants.govRegistrationBrochure.pdf.** Item 2. below mentions the “NIFA Grants.gov Application Guide.” Part II.1. of the NIFA Grants.gov Application Guide contains additional explanatory language regarding the registration process.

Steps to Obtain Application Package Materials

The steps to access application materials are as follows:

1. In order to access, complete and submit applications, applicants must download and install a version of Adobe Reader compatible with Grants.gov. This software is essential to apply for NIFA Federal assistance awards. For basic system requirements and download instructions, please see www.grants.gov/help/download_software.jsp. To verify that you have a compatible version of Adobe Reader, Grants.gov established a test package that will assist you in making that determination. Grants.gov Adobe Versioning Test Package: www.grants.gov/applicants/AdobeVersioningTestOnly.jsp.
2. The application package must be obtained via Grants.gov, go to www.grants.gov, click on “Apply for Grants” in the left-hand column, click on **“Step 1: Download a Grant Application Package and Instructions,”** enter the funding opportunity number **USDA-NIFA-AFRI-004156** in the appropriate box and click “Download Package.” From the search results, click “Download” to access the application package.

Contained within the application package is the “NIFA Grants.gov Application Guide: A Guide for Preparation and Submission of NIFA Applications via Grants.gov.” This Guide contains an introduction and general Grants.gov instructions, information about how to use a Grant Application Package in Grants.gov, and instructions on how to complete the application forms.

If assistance is needed to access the application package (e.g., downloading or navigating Adobe forms), **or submitting the application** then refer to resources available on the Grants.gov Web site first (www.grants.gov). Grants.gov assistance is also available as follows:

Grants.gov customer support
1-800-518-4726 Toll-Free or 606-545-5035
Business Hours: 24 hours a day, 7 days a week. Closed on [Federal Holidays](#).

Email: support@grants.gov

Grants.gov iPortal: Top 10 requested help topics (FAQs), Searchable knowledge base, self service ticketing and ticket status, and live web chat (available 7:00 A.M. - 9:00 P.M. ET). Get help now!

Please have the following information available when contacting Grants.gov, to help expedite your inquiry:

- Funding Opportunity Number (FON)
- Name of Agency You Are Applying To
- Specific Area of Concern

See http://grants.gov/applicants/app_help_reso.jsp or www.nifa.usda.gov/funding/electronic.html for additional resources for applying electronically.

C. Content and Form of Application Submission

Electronic applications should be prepared following Parts V and VI of the document entitled “A Guide for Preparation and Submission of NIFA Applications via Grants.gov.” This guide is part of the corresponding application package (see Section A. of this Part). The following is **additional information** needed in order to prepare an application in response to this RFA. **If there is discrepancy between the two documents, the information contained in this RFA is overriding.**

Note the attachment requirements (e.g., portable document format) in Part III section 3. of the Guide. ANY PROPOSALS THAT ARE NON-COMPLIANT WITH THE REQUIREMENTS (i.e., content format, PDF file format, file name restrictions, and no password protected files) WILL BE EXCLUDED FROM NIFA REVIEW. Partial applications will be excluded from NIFA review. With documented prior approval, subsequent submissions of an application will be accepted until close of business on the closing date in the RFA.

If you do not own PDF-generating software, Grants.gov provides online tools to assist applicants. Users will find a link to “Convert Documents to PDF” on http://grants.gov/help/download_software.jsp#pdf_conversion_programs.

For any questions related to the preparation of an application please review the NIFA Grants.gov Application Guide and the applicable request for applications. If assistance is still needed for preparing application forms content, contact:

- Email: electronic@nifa.usda.gov
- Phone: 202-401-5048
- Business hours: Monday through Friday, 7:00 am – 5:00 pm Eastern Time, excluding Federal holidays.

All application information provided herein is general for all Project and Grant Types. However, some types require different information. These differences are noted by a ☼ symbol. Proper preparation of an application will assist reviewers in evaluating the merits of each application in a systematic, consistent fashion.

1. **SF 424 R&R Cover Sheet**

Instructions related to this form are explained in detail in Part V, 2. of the NIFA Grants.gov Application Guide.

a. Field 12. Proposed Project – For the start date of the project, select a date at least six months after the submission deadline date for the program. Choose the end date to correspond to the correct duration of the project.

b. **Field 20. Pre-application** – Do not fill out this portion of the form.

2. **SF 424 R&R Project/Performance Site Location(s)**

Instructions related to this form are explained in detail in Part V, 3. of the NIFA Grants.gov Application Guide.

3. **R&R Other Project Information**

Instructions related to this form are explained in detail in Part V, 4. of the NIFA Grants.gov Application Guide.

a. **Fields 1 and 2. Are Human Subjects Involved? And, Are Vertebrate Animals Used?**

☼ *For Sabbatical Grant Applications* – Applicants whose research requires use of human subjects or vertebrate animals must have their project reviewed by the appropriate committee(s) at the institution where the research will be conducted.

b. **Field 7. Project Summary/Abstract – PDF Attachment.** The following are instructions are in addition to those included in section 4.7 of Part V of the NIFA Grants.gov Application Guide. Title the attachment as 'Project Summary' in the document header and save file as 'ProjectSummary'. See Part V. 4.7 of NIFA Grants.gov Application Guide for further instructions.

The Project Summary must list the names and institutions of the PD and co-PDs and **indicate which specific FY 2013 Program Area Priority the proposed project addresses**. Program Area Priorities are stated within each Program Area Description (see Part I, C). Applications that do not address at least one Program Area Priority will not be reviewed.

☼ *For Conference Grant Applications* – State the objectives of the conference, symposium, or workshop, as well as the proposed location and probable inclusive date(s) of the conference. Please state in the summary the specific Program Area Priority to which the project applies.

☼ *For Sabbatical Grant Applications* – Indicate overall project goals and supporting objectives.

☼ *For Equipment Grant Applications* – Indicate equipment sought and overall project goals for its use.

c. **Field 8. Project Narrative – PDF Attachment.** Title the attachment as 'Project Narrative' in the document header and save file as 'ProjectNarrative.'

Page Limits

For Standard Research, Standard Integrated, Conference, New Investigator and Strengthening Standard, Grant Applications, the Project Narrative section may not exceed a total of 18 pages including all figures and tables.

For Sabbatical, Equipment, and Seed Grant applications, the Project Narrative section may not exceed a total of 7 pages including all figures and tables.

To ensure fair and equitable competition, **applications exceeding the applicable page limitation will be returned without review.**

Each Project Narrative is expected to be complete; however, preprints (see Part IV, C. 4. g) related to the Project Narrative are allowed if they are germane to the proposed project. Information may not be appended to an application to circumvent page limitations prescribed for the Project Narrative.

Extraneous materials will not be used during the peer review process.

Project Narrative must include all of the following:

- 1) Response to Previous Review (if applicable)
This requirement only applies to Resubmitted Applications as described in Part II, B. The Project Narrative attachment should include two components: 1) a 1-page response to the previous review panel summary titled "Response to Previous Review" included as the first page of the Project Narrative attachment, and 2) the 7- or 18-page Project Narrative, as required (see Part IV, C. 3. c above).
- 2) Introduction
Include a clear statement of the long-term goal(s) and supporting objectives of the proposed project. Summarize the body of knowledge or past activities that substantiate the need for the proposed project. Describe ongoing or recently completed activities significant to the proposed project, including the work of key project personnel. Include preliminary data/information pertinent to the proposed project. All works cited should be referenced (see Bibliography & References Cited in Part IV, C. 3. c).
- 3) Rationale and Significance
 - a) Concisely present the rationale behind the proposed project;
 - b) Describe the specific relationship of the project's objectives to one of the Program Area Priorities. Applications that do not address at least one Program Area Priority will not be reviewed; and
 - c) The potential long-range improvement in and sustainability of U.S. agriculture and food systems should be shown clearly. These purposes are described under Purpose and Priorities in Part I, B. Any novel ideas or contributions that the proposed project offers should also be discussed in this section.
- 4) Approach
The activities proposed or problems being addressed must be clearly stated and the approaches applied are to be clearly described. Specifically, this section must include:
 - a) A description of the activities proposed and the sequence in which the activities are to be performed;
 - b) Methods to be used in carrying out the proposed project, including the feasibility of the methods;
 - c) Expected outcomes;
 - d) Means by which results will be analyzed, assessed, or interpreted;
 - e) How results or products will be used;
 - f) Pitfalls that may be encountered;
 - g) Limitations to proposed procedures;
 - h) A full explanation of any materials, procedures, situations, or activities related to the project that may be hazardous to personnel, along with an outline or precautions to be exercised to avoid or mitigate the effects of such hazards; and
 - i) A timeline for attainment of objectives and for production of deliverables that includes annual milestones with specific, measurable outcomes.

☼ *For Integrated Project Applications –*

- Integrated Project applications must include the three functions of the agricultural knowledge system (i.e., research, education, and Extension). Each function should be represented by one or more objectives within the application.
- Projects must budget sufficient resources to carry out the proposed set of research, Extension, and education activities that will lead to the desired outcomes.
- Integrated Projects must include individuals on the project team with significant expertise in each component of the project (research, education, and Extension).
- A plan for evaluating progress toward achieving project objectives must be included. The plan must include milestones, which signify the completion of a major deliverable, event, or accomplishment and serve to verify that the project is on schedule and on track for successful conclusion. The plan should also include descriptions of indicators that you will measure to evaluate whether the research, education, and Extension activities are successful in achieving project goals and in contributing to achievement of the stated program goals and outcomes.
- In addition to the Project Narrative requirements above, the proposed Integrated Project should clearly articulate:
 - Stakeholder involvement in project development, implementation, and evaluation, where appropriate;
 - Objectives for each function included in the project (note that Extension and education activities are expected to differ and to be described in separate project objectives; see enumerated descriptions in Part II, C.); and
 - A dissemination plan describing the methods that will be used to communicate findings and project accomplishments.
- AFRI encourages projects that develop content and programs suitable for delivery through the Cooperative Extension System's eXtension Initiative. Funds may be used to contribute to existing CoPs or to form a new CoP. Projects must align with the eXtension vision, mission, and values. A letter of acknowledgement from eXtension is required, and a letter of support may be required from one or more of the CoPs. For detailed guidance on how to partner with eXtension, go to <http://create.extension.org/node/2057>.
- AFRI encourages Integrated Projects that develop content suitable for delivery through eXtension. This content is for "end users" as opposed to staff development and must follow the eXtension Guiding Principles and guidelines for including eXtension in a proposal presented at http://about.extension.org/wiki/NIFA_RFA_Information. Funds may be used to 1) enhance an existing COP or 2) to establish a new COP, as appropriate.
- AFRI encourages Integrated Projects that are suitable for 4-H audiences and stakeholder groups while meeting identified program priorities. The 4-H Youth Development is the programmatic outreach of the land-grant universities and institutions to our youngest citizens in their communities and provides opportunities for youth to develop skills, practical knowledge, and wisdom with an emphasis on practical application of knowledge or "learning by doing." By engaging 4-H in AFRI projects, applicants engage young people as citizen scientists; increase their awareness of the role of agriculture; and prepare young people for higher education and the 21st century work environment. Opportunities for engaging 4-H in AFRI proposals should align with the 4-H Mission Mandates of Science, Engineering and Technology; Healthy Living; and Citizenship. See guiding principles at www.national4-hheadquarters.gov or contact your university Cooperative Extension headquarters and/or state 4-H program office.

☼ *For Conference Grant Applications –* The requirements, noted below are in lieu of those in the Approach section mentioned above:

- A justification for the meeting;
- Recent meetings on the same subject with dates and locations;
- Names and organizational affiliations of the chair and other members of the organizing committee;
- A proposed program (or agenda) for the conference, including a listing of scheduled participants and their institutional affiliations; and
- The method of announcement or invitation that will be used.

☀ *For Sabbatical Grant Applications* – The requirements noted below are in lieu of those in the Approach section mentioned above:

- A general description of the research, education, and Extension interests and goals of the applicant in order to provide perspective for the application;
- A description of the project to be pursued while on the sabbatical leave;
- A statement of how the sabbatical leave will enhance the capabilities of the applicant; and
- A statement of future research goals and objectives once the sabbatical is complete and how the sabbatical will enable the applicant to pursue these goals.

☀ *For Equipment Grant Applications* – The Project Narrative for those applications also must include a general description of the project(s) for which the equipment will be used; how the equipment will fit into or enhance the research, education, and Extension program; and how the equipment will allow the applicant to become competitive for future funding or move into new research areas. Also include a description of other similar or complementary equipment available to the PD at the institution and why the requested equipment is necessary.

☀ *For Seed Grant Applications* – Include all of the components detailed in the Project Narrative section above and present enough detail to allow adequate evaluation. In order to be competitive, long-term goals and a statement describing how this Seed Grant will allow the applicant to become competitive for future funding must be included.

d. Field 9. Bibliography & References Cited – PDF Attachment. No Page Limit. Title the attachment as 'Bibliography & References Cited' in the document header and save file as 'BibliographyReferencesCited'.

All work cited in the text should be referenced in this section of the application. All references must be complete; include titles and all co-authors; conform to an acceptable journal format; and be listed in alphabetical order using the last name of the first author or listed by number in the order of citation.

e. Field 10. Facilities & Other Resources – PDF Attachment. No Page Limit. Title the attachment as 'Facilities & Other Resources' in the document header and save file as 'FacilitiesOtherResources'.

f. Field 11. Equipment – PDF Attachment. No Page Limit. Title the attachment as 'Equipment' in the document header and save file as 'Equipment'.

In addition to describing available equipment, items of nonexpendable equipment necessary to conduct and successfully complete the proposed project should be listed in Field C. of the R&R Budget and described in the Budget Justification (Field K. of the R&R Budget).

g. Field 12. Other Attachments

The following instructions are in addition to those noted in Part V 4.12 of the NIFA Grants.gov Application Guide.

- 1) **Project Type – PDF Attachment. 1-Page Limit.** Title the attachment as 'Project Type' and save file as 'ProjectType'.

Identify the type of project and the type of grant you are submitting by completing the Project Type template located at: www.nifa.usda.gov/funding/templates/project_type.doc. Before doing so please refer to Part I, C of this RFA for project types requested under each Program Area Description and see Part II of this RFA for a full description of each project and grant type.

- 2) **Key Personnel Roles – PDF Attachment. 2-Page Limit.** Title the attachment as 'Key Personnel' and save file as 'KeyPersonnel'.

Clearly describe the roles and responsibilities of the PD, co-PD(s), collaborator(s), and other key personnel. (biographical sketches for key personnel should not be included here). If it will be necessary to enter into formal consulting or collaborative arrangements with others, such arrangements should be fully explained and justified. Evidence (letters of support) for this type of collaboration should be provided in the 'Documentation of Collaboration' (see number 5 below).

☀ *For Integrated Grant Applications* – state for key personnel an estimate of the percent of time devoted to research, education, and extension activities.

- 3) *Logic Model* – **PDF Attachment. Required for Integrated Project Grants Only. Allowable for Research Projects. 2-Page Limit.** Title the attachment as 'Logic Model' and save file as 'LogicModel'.

Include the elements of a logic model detailing the activities, outputs, and outcomes of the proposed project. The logic model planning process is a tool that should be used to develop your project before writing your application. This information may be provided as a narrative or formatted into a logic model chart. More information and resources related to the logic model planning process are provided at www.nifa.usda.gov/funding/integrated/integrated_logic_model.html.

- 4) *Management Plan* – **PDF Attachment. Required for Integrated Project Grants Only. Allowable for Research Projects. 3-Page Limit.** Title the attachment as 'Management Plan' and save file as 'ManagementPlan'.

The plan is to be clearly articulated and include an organizational chart, administrative timeline, and a description of how the project will be governed, as well as a strategy to enhance coordination, collaboration, communication, and data sharing and reporting among members of the project team and stakeholder groups. The plan must also address how the project will be sustained beyond the termination of award.

The management plan should also include an advisory group of principal stakeholders, partners, and professionals to assess and evaluate the quality, expected measurable outcomes, and potential impacts for the proposed research, education, and extension. Please include rationale for their role, and how they will function effectively to support the goals and objectives of the project. The plan must demonstrate how partners and stakeholders contribute to project assessment on an annual basis.

- 5) *Documentation of Collaboration* – **PDF Attachment. No Page Limit.** Title the attachment as 'Documentation of Collaboration' in the document header and save file as 'Collaboration'.

Evidence, e.g., letter(s) of support, should be provided that the collaborators involved have agreed to render services.

☀ *For Sabbatical Grant Applications* – Provide documentation that arrangements have been made with an established investigator(s) to serve as host, including:

- A letter from the home institution detailing the particular arrangements at the home institution with respect to salary and date and duration of sabbatical;
- A letter from the scientific host(s) indicating willingness to serve in this capacity and a description of the host's contribution to the proposed activities both scientifically and with regard to use of facilities and equipment; and
- A statement signed by the Department Head or equivalent official at the host institution indicating a commitment to provide research space and facilities for the period of the applicant's presence.

☼ *For Equipment Grant Applications* – The application must contain a letter(s) from the organization(s) committed to providing the non-Federal matching funds. Provide evidence of institutional commitment for operation and maintenance of requested equipment. Arrangements for sharing equipment among faculty are encouraged. However, it must be evident that the PD is a principal user of the requested equipment.

- 6) **Preprints – PDF Attachment. Limited to 2 preprints.** Title the attachment as 'Preprints' in the document header and save file as 'Preprints'.

Preprints related to the Project Narrative are allowed if they are directly germane to the proposed project. Information may not be appended to an application to circumvent page limitations prescribed for the Project Narrative. **Extraneous materials will not be used during the peer review process.** Only manuscripts in press for a peer-reviewed journal will be accepted and must be accompanied by letters of acceptance from the publishing journals). Preprints attached in support of the application should be **single-spaced**. Each preprint must be identified with the name of the submitting organization, the name(s) of the PD(s), and the title of the application.

4. **R&R Senior/Key Person Profile (Expanded)**

Information related to the questions on this form is dealt with in detail in Part V, 5. of the NIFA Grants.gov Application Guide.

- a. **Project Role Field** – Complete appropriately.

☼ *For Sabbatical Grant Applications* – Select "PD/PI" for the Sabbatical Grant applicant. Select "Other" for the corresponding scientific host(s) and any other personnel whose qualification merit consideration in the evaluation of the application.

☼ *For Equipment Grant Applications* – Select "PD/PI" for the Equipment Grant applicant. Select "Faculty" for the other major users of the equipment.

- b. **Other Project Role Category Field** – Complete appropriately, if applicable.

- c. **Attach Biographical Sketch Field – PDF Attachment. 2-Page Limit** (excluding publications listings) per PD, co-PD, senior associate, and other professional personnel. Title the attachment as 'Biographical Sketch' in the document header and save file as 'BiographicalSketch'.

☼ *For Sabbatical Grant Applications* – A Biographical Sketch must be submitted for the Sabbatical Grant applicant, the scientific host(s), and any other personnel whose qualifications merit consideration in the evaluation of the application.

☼ *For Equipment Grant Applications* – A Biographical Sketch for both the Equipment Grant applicant and other major users of the equipment must be submitted.

- d. **Attach Current and Pending Support Field – PDF Attachment. No Page Limit.** Title the attachment as 'Current and Pending Support' in the document header and save file as 'CurrentPendingSupport'.

The AFRI program will not fund an application that duplicates or overlaps substantially with other NIFA funding (including non-competitive funds such as Special Grants or Hatch formula funds) or other Federal funding. As an addendum to the Current and Pending Support, provide a brief summary for any completed, current, or pending projects that appear similar to the current application, especially previous NRI or AFRI awards.

☼ *For Sabbatical Grant Applications* – Include both the Sabbatical Grant applicant and the scientific host(s) (as documentation of on-going work in the host's laboratory) must be completed.

☼ *For Equipment Grant Applications* – Include for both the Equipment Grant applicant and other major users of the equipment.

5. **R&R Personal Data**

As noted in Part V, 6. of the NIFA Grants.gov Application Guide, the submission of this information is voluntary and is not a precondition of award.

6. **R&R Budget**

Information related to the question on this form is dealt with in detail in Part V, 7. of the NIFA Grants.gov Application Guide.

a. Budget Periods. Applications must contain a budget for each budget period for the entire duration of the proposed project. Annual and cumulative budgets are required.

If a project is funded, beginning in the first year of funding, the project director will be required to attend annual investigator meetings for the duration of the award (excluding Conference, Sabbatical, and Equipment Grant applications). Seed Grant applications are required to attend beginning in the second year of funding. Reasonable travel expenses should be included as part of the project budget.

☼ *For Integrated Project Applications* – Projects must budget sufficient resources to carry out the proposed set of research, extension, and education activities that will lead to the desired outcomes. Projects that include partnering with eXtension must include financial support for the Community of Practice core functions as well as project-specific activities.

☼ *For Conference, Sabbatical, Equipment, and Seed Grant Applications.* Refer to Part II, D for budget related limitation and other information.

b. Field C. Equipment.

c. Field D. Travel – For each year supported by NIFA, the project director will be required to attend an annual investigator meeting (excluding Conference, Sabbatical, and Equipment Grant applications). Seed Grant applications are required to attend beginning in the second year of funding. Reasonable travel expenses should be included as part of the project budget.

d. Field H. Indirect Costs – NIFA is prohibited from paying indirect costs exceeding 30 percent of the total Federal funds provided under each award. This limitation is equivalent to 0.42857 of the total direct costs of an award. See Part IV, E for additional information. **Subcontracts are allowed indirect costs only if the organization has a negotiated rate agreement with a cognizant federal audit agency. Indirect costs are not permitted on Conference Grant or Equipment Grant awards.**

e. Field K. Budget Justification – PDF Attachment. No Page Limit. Title the attachment as 'Budget Justification' in the document header and save file as 'BudgetJustification'.

Budget categories for which support is requested should be listed (with costs) in the same order as the budget and include, where appropriate, an itemization as well as be explained and justified. A proposed statement of work, biographical sketch, and a budget for each arrangement involving the transfer of substantive programmatic work or the provision of financial assistance to a third party must be supplied. In multi-institutional applications, a budget and budget narrative must be included for each institution involved. The lead institution and each participating institution must be identified.

☼ *For Integrated Project Applications* – Each function should be represented by one or more objectives within the application. Projects must budget sufficient resources to carry out the proposed set of research, extension, and education activities that will lead to the desired outcomes.

☼ *For Equipment Grant Applications* – The Budget Justification should describe the instrument requested including the manufacturer and model number, if known; provide a detailed budget breakdown of the equipment and accessories required; and indicate the amount of funding requested from USDA for each component of equipment requested.

f. Subcontract Arrangements

Grant recipients may subcontract to organizations not eligible to apply provided such organizations are necessary for the conduct of the project. If it will be necessary to enter into a formal subcontract agreement with another institution, financial arrangements must be detailed in the “R&R Subaward Budget Attachment(s) Form.” Annual and cumulative budgets, budget justification and a letter of commitment signed by the Authorized Representative (AR) are required for each subcontract agreement. Refer to Part V, 8. of the NIFA Grants.gov Application Guide for instructions on completing this form.

g. Matching

If a funded project is commodity-specific and not of national scope, the grant recipient is required to match the USDA funds awarded on a dollar-for-dollar basis from non-Federal sources with cash and/or in-kind contributions.

The sources and the amount of all matching support from outside the applicant organization should be summarized on a separate page and placed in the application immediately following the Budget Justification. All pledge agreements must be placed in the application immediately following the summary of matching support.

The value of applicant contributions to the project shall be established in accordance with applicable cost principles. Applicants should refer to OMB Circular A-21 (2 CFR Part 220), Cost Principles for Educational Institutions, for further guidance and other requirements relating to matching and allowable costs.

7. Supplemental Information Form

Information related to the questions on this form is dealt with in detail in Part VI, 1. of the NIFA Grants.gov Application Guide.

a. Field 2. Program to which you are applying – Enter the Program Code Name (i.e., Integrated Approaches to Prevent Childhood Obesity) and the Program Code (i.e., **A2101**).

b. Field 8. Conflict of Interest List – PDF Attachment. No Page Limit. Title the attachment as ‘Conflict of Interest’ in the document header and save file as ‘ConflictofInterest’. See Part VI, 1.8 of the NIFA Grants.gov Application Guide for further instructions.

Collate all individual Conflict of Interest lists into a single document file. The lists can only be submitted as a single PDF attachment.

☼ *For Equipment Grant Applications* – Conflict of Interest list for the Equipment Grant applicant and other major users of the equipment must be completed.

D. Submission Dates and Time

Instructions for submitting an application are included in Part IV, Section 1.9 of the NIFA Grants.gov Application Guide.

Applications must be received by Grants.gov by 5:00 p.m. ET on the dates indicated in the Program Area Descriptions beginning in Part I, C. **Applications received after the applicable deadlines will not be reviewed.**

Applicants who have problems with the submission of an application Grants.gov are encouraged to FIRST contact the Grants.gov Help Desk to resolve any problems. Keep a record of any such correspondence. See Part IV. A. for Grants.gov contact information.

Correspondence regarding submitted applications will be sent using e-mail. Therefore, applicants are strongly encouraged to provide accurate e-mail addresses, where designated, on the SF-424 R&R Application for Federal Assistance.

If the AR has not received correspondence **from NIFA** regarding a submitted application within 30 days of the established deadline, please contact the Program Contact identified in Part VII of the applicable RFA and request the proposal number assigned to the application. **Failure to do so may result in the application not being considered for funding by the peer review panel. Once the application has been assigned a proposal number, this number should be cited on all future correspondence.**

E. Funding Restrictions

Section 7132 of the Food, Conservation, and Energy Act of 2008 (Pub. L. 110-246) amended section 1462(a) of the National Agricultural Research, Extension, and Teaching Policy Act of 1977 (7 U.S.C. 3310(a)) on recovery of indirect costs. The recovery of indirect costs on awards made by NIFA under this program may not exceed the lesser of the institution's official negotiated indirect cost rate or the equivalent of 30 percent of total Federal funds awarded.

Funds made available for grants under the AFRI program shall not be used for the construction of a new building or facility or the acquisition, expansion, remodeling, or alteration of an existing building or facility (including site grading and improvement, and architect fees).

F. Other Submission Requirements

1. Proper Application Submission

The applicant must follow the submission requirements noted in Part IV, section 1.9 in the document entitled “NIFA Grants.gov Application Guide.”

For information about the **status of a submitted application**, see Part III., section 6. of the NIFA Grants.gov Application Guide.

2. Multiple Submissions

Duplicate, essentially duplicate or predominantly overlapping applications submitted to one or more program areas within the AFRI (including FASE Grants) in any one fiscal year will not be reviewed. In addition, applicants may not submit to AFRI an application that is considered duplicate, essentially duplicate, or predominantly overlapping with an application submitted to another NIFA program in the same fiscal year.

PART V – APPLICATION REVIEW REQUIREMENTS

A. General

Each application will be evaluated in a two-part process. First, each application will be screened to ensure that it meets the administrative requirements as set forth in this RFA. Applications that do not fall within the guidelines, as stated in the RFA, will be eliminated from program competition and will not be reviewed. Second, applications that meet these requirements will be technically evaluated by a review panel. In addition to the review panel, written comments will be solicited from *ad hoc* reviewers when necessary. Prior to recommending an application for funding, the peer review panel and *ad hoc* reviewer comments will be presented and discussed.

Reviewers will be selected based upon their training and experience in relevant scientific, extension, or education fields, taking into account the following factors: (a) the level of relevant formal scientific, technical education, or extension experience of the individual, as well as the extent to which an individual is engaged in relevant research, education, or extension projects; (b) the need to include experts from various areas of specialization within relevant scientific, education, or extension fields; (c) the need to include other experts (e.g., producers, range or forest managers/operators, and consumers) who can assess relevance of the applications to targeted audiences and to program needs; (d) the need to include experts from a variety of organizational types (e.g., colleges, universities, industry, state and Federal agencies, private profit, and non-profit organizations) and geographic locations; (e) the need to maintain a balanced composition of reviewers with regard to minority and female representation and an equitable distribution of professional rank; and (f) the need to include reviewers who can judge the effective usefulness to producers and the general public of each application.

For more information on the peer review process, see
http://www.nifa.usda.gov/business/competitive_peer_review.html

B. Evaluation Criteria

Projects supported under this program shall be designed, among other things, to accomplish all of the purposes of agriculture (research, education, and Extension), subject to the varying conditions and needs of United States. Therefore, in carrying out its review, the peer review panel will take into account the following factors.

1. Integrated Project Applications

These evaluation criteria will be used for the review of all multi-function Integrated Project applications.

a. Merit of the Application for Science Research, Education, and Extension

- 1) Project objectives and outcomes are clearly described, adequate, and appropriate. All project components (i.e., research, education, Extension) are reflected in one or more project objectives;
- 2) Proposed approach, procedures, or methodologies are innovative, original, clearly described, suitable, and feasible;
- 3) Expected results or outcomes are clearly stated, measurable, and achievable within the allotted time frame;
- 4) Proposed research fills knowledge gaps that are critical to the development of practices and programs to address the stated problem or issue;
- 5) Proposed Extension leads to measurable, documented changes in learning, actions, or conditions in an identified audience or stakeholder group; and
- 6) Proposed education (teaching) has an impact upon and advances the quality of food and agricultural sciences by strengthening institutional capacities and curricula to meet clearly delineated needs and train the next generation of scientists and educators.

b. Qualifications of Project Personnel, Adequacy of Facilities, and Project Management

- 1) Roles of key personnel are clearly defined;

- 2) Key personnel have sufficient expertise to complete the proposed project, and where appropriate, partnerships with other disciplines (e.g., social science or economics) and institutions are established;
- 3) Evidence of institutional capacity and competence in the proposed area of work is provided;
- 4) Support personnel, facilities, and instrumentation are sufficient;
- 5) A clear plan is articulated for project management, including time allocated for attainment of objectives and delivery of products, maintenance of partnerships and collaborations, and a strategy to enhance communication, data sharing, and reporting among members of the project team; and
- 6) The budget clearly allocates sufficient resources to carry out a set of research, education (teaching), and Extension activities that will lead to desired outcomes. Supporting funds for CoP core functions and project-specific activities are included for partnerships with EXtension.

c. Project Relevance

- 1) Documentation that the project is directed toward specific Program Area Priority(ies) identified in this RFA and is designed to accelerate progress toward the productivity and economic, environmental, and social sustainability of U.S. agriculture with respect to natural resources and the environment, human health and well-being, and communities;
- 2) Project components (research, education, and Extension) are fully integrated and necessary to address the problem or issue;
- 3) The proposed work addresses identified stakeholder needs;
- 4) Stakeholder involvement in project development, implementation, and evaluation is demonstrated, where appropriate;
- 5) Plan and methods for evaluating success of project activities and documenting potential impact against measurable short and mid-term outcomes are suitable and feasible;
- 6) For Extension or education (teaching) activities, curricula and related products will sustain education or Extension functions beyond the life of the project; and
- 7) For Extension or education (teaching) activities, the resulting curricula or products share information and recommendations based on knowledge and conclusions from a broad range of research initiatives.

2. Conference Grant Applications

- a. Relevance of the proposed conference to agriculture and food systems in the United States and appropriateness of the conference in fostering scientific exchange;
- b. Qualifications of the organizing committee and appropriateness of invited speakers to topic areas being covered; and
- c. Uniqueness, timeliness of the conference, and appropriateness of budget requests.

3. New Investigator and Strengthening Standard Grant Applications

Refer to the review criteria listed above for the applicable Project Type (Research, Education, Extension or Integrated) to which you are applying.

4. Sabbatical Grant, Equipment Grant, and Seed Grant Applications

- a. The merit of the proposed activities or equipment as a means of enhancing the capabilities and competitiveness of the applicant and/or institution;
- b. The applicant's previous experience and background along with the appropriateness of the proposed activities or equipment for the goals proposed; and
- c. Relevance of the project to long-range improvements in and sustainability of U.S. agriculture, the environment, human health and well-being, and rural communities.

C. Conflicts of Interest and Confidentiality

During the peer evaluation process, extreme care will be taken to prevent any actual or perceived conflicts of interest that may impact review or evaluation. For the purpose of determining conflicts of interest, the academic and administrative autonomy of an institution shall be determined by reference to the current Higher Education Directory, published by Higher Education Publications, Inc., 1801 Robert Fulton Drive, Suite 340, Reston, Virginia 20191. Phone: (888) 349-7715. Web site: www.hepinc.com.

Names of submitting institutions and individuals, as well as application content and peer evaluations, will be kept confidential, except to those involved in the review process, to the extent permitted by law. In addition, the identities of peer reviewers will remain confidential throughout the entire review process. Therefore, the names of the reviewers will not be released to applicants.

D. Organizational Management Information

Specific management information relating to an applicant shall be submitted on a one-time basis as part of the responsibility determination prior to the award of a grant identified under this RFA, if such information has not been provided previously under this or another NIFA program. NIFA will provide copies of forms recommended for use in fulfilling these requirements as part of the pre-award process. Although an applicant may be eligible based on its status as one of these entities, there are factors that may exclude an applicant from receiving Federal financial and nonfinancial assistance and benefits under this program (e.g., debarment or suspension of an individual involved or a determination that an applicant is not responsible based on submitted organizational management information).

PART VI – AWARD ADMINISTRATION

A. General

Within the limit of funds available for such purpose, the awarding official of NIFA shall make grants to those responsible, eligible applicants whose applications are judged most meritorious under the procedures set forth in this RFA. The date specified by the awarding official of NIFA as the effective date of the grant shall be no later than September 30 of the Federal fiscal year in which the project is approved for support and funds are appropriated for such purpose, unless otherwise permitted by law. It should be noted that the project need not be initiated on the grant effective date, but as soon thereafter as practical so that project goals may be attained within the funded project period. All funds granted by NIFA under this RFA shall be expended solely for the purpose for which the funds are granted in accordance with the approved application and budget, the regulations, the terms and conditions of the award, the applicable Federal cost principles, the Department's assistance regulations (parts 3015 and 3019 of 7 CFR), and the NIFA General Awards Administration Provisions at 7 CFR part 3430, subparts A through E.

B. Award Notice

The award document will provide pertinent instructions and information including, at a minimum, the following:

1. Legal name and address of performing organization or institution to whom the Director has issued an award under the terms of this RFA;
2. Title of project;
3. Name(s) and institution(s) of PDs chosen to direct and control approved projects;
4. Identifying award number assigned by the Department;
5. Award type, specifying whether the grant is a standard or continuation award;
6. Project period, specifying the amount of time the Department intends to support the project without requiring re-competition for funds, and that no-cost extensions of time beyond the five year performance period will be granted only in extenuating circumstances, require prior approval and will be contingent on a satisfactory merit review conducted by NIFA;
7. Total amount of Departmental financial assistance approved by the Director during the project period;
8. Legal authority(ies) under which the award is issued;
9. Appropriate Catalog of Federal Domestic Assistance (CFDA) number;
10. Applicable award terms and conditions (see www.nifa.usda.gov/business/awards/awardterms.html to view NIFA award terms and conditions);
11. Approved budget plan for categorizing allocable project funds to accomplish the stated purpose of the award; and
12. Other information or provisions deemed necessary by NIFA to carry out its respective awarding activities or to accomplish the purpose of a particular award.

C. Administrative and National Policy Requirements

Several Federal statutes and regulations apply to grant applications considered for review and to project grants awarded under this program. These include, but are not limited to:

2 CFR Part 215 – Uniform Administrative Requirements for Grants and Agreements With Institutions of Higher Education, Hospitals, and Other Non-Profit Organizations (OMB Circular A-110).

2 CFR Part 220 – Cost Principles for Educational Institutions (OMB Circular A-21).

2 CFR Part 225 – Cost Principles for State, Local, and Indian Tribal Governments (OMB Circular A-87).

2 CFR Part 230 – Cost Principles for Non-Profit Organizations (OMB Circular A-122).

7 CFR Part 1, subpart A – USDA implementation of the Freedom of Information Act.

7 CFR Part 3 – USDA implementation of OMB Circular No. A-129 regarding debt collection.

7 CFR Part 15, subpart A – USDA implementation of Title VI of the Civil Rights Act of 1964, as amended.

7 CFR Part 331 and 9 CFR Part 121 – USDA implementation of the Agricultural Bioterrorism Protection Act of 2002.

7 CFR Part 3015 – USDA Uniform Federal Assistance Regulations, implementing OMB directives (i.e., OMB Circular Nos. A-21 and A-122, now codified at 2 CFR Parts 220 and 230) and incorporating provisions of 31 U.S.C. 6301-6308 (formerly the Federal Grant and Cooperative Agreement Act of 1977, Pub. L. No. 95-224), as well as general policy requirements applicable to recipients of Departmental financial assistance.

7 CFR Part 3016 – USDA Implementation of Uniform Administrative Requirements for Grants and Cooperative Agreements to State and Local Governments.

7 CFR Part 3017 – USDA implementation of Governmentwide Debarment and Suspension (Nonprocurement) and 7 CFR Part 3021—Governmentwide Requirements for Drug Free Workplace (Grants).

7 CFR Part 3018 – USDA implementation of Restrictions on Lobbying. Imposes prohibitions and requirements for disclosure and certification related to lobbying on recipients of Federal contracts, grants, cooperative agreements, and loans.

7 CFR Part 3019 – USDA implementation of OMB Circular A-110, Uniform Administrative Requirements for Grants and Other Agreements With Institutions of Higher Education, Hospitals, and Other Nonprofit Organizations.

7 CFR Part 3021 – Governmentwide Requirements for Drug Free Workplace (Grants)

7 CFR Part 3022 —Research Institutions Conducting USDA-Funded Extramural Research; Research Misconduct.

7 CFR Part 3052 – USDA implementation of OMB Circular No. A-133, Audits of States, Local Governments, and Nonprofit Organizations.

7 CFR Part 3407 – NIFA procedures to implement the National Environmental Policy Act of 1969, as amended.

7 CFR Part 3430 – NIFA Competitive and Noncompetitive Nonformula Grant Programs—General Grant Administrative Provisions.

29 U.S.C. 794 (section 504, Rehabilitation Act of 1973) and 7 CFR Part 15b (USDA implementation of statute) – prohibiting discrimination based upon physical or mental handicap in Federally assisted programs.

35 U.S.C. 200 et seq. – Bayh Dole Act, controlling allocation of rights to inventions made by employees of small business firms and domestic nonprofit organizations, including universities, in Federally assisted programs (implementing regulations are contained in 37 CFR Part 401).

D. Expected Program Outputs and Reporting Requirements

Grantees are to submit initial project information and annual summary reports to NIFA's electronic, Web-based inventory system that facilitates both grantee submissions of project outcomes and public access to information on Federally-funded projects. The details of these reporting requirements are included in the award terms and conditions.

If a project is funded, beginning in the first year of funding, the project director will be required to attend annual investigator meetings (excluding Planning/Coordination, Conference, Sabbatical, and Equipment Grant applications). Seed Grant applications are required to attend beginning in the second year of funding. Reasonable travel expenses should be included as part of the project budget.

PART VII – AGENCY CONTACTS

For general questions related to the AFRI Programs, applicants and other interested parties are encouraged to contact AFRI:

AFRI Program Office:

Dr. Franklin E. Boteler, Assistant Director, Institute of Bioenergy, Climate, and Environment

Dr. Robert E. Holland, Assistant Director, Institute of Food Safety and Nutrition

Dr. Muquarrab Qureshi, Assistant Director, Institute of Youth, Family, and Community

Dr. Deborah Sheely, Assistant Director, Institute of Food Production and Sustainability

Telephone: (202) 401-5022

Fax: (202) 401-6488

E-mail: AFRI@nifa.usda.gov

Specific questions pertaining to technical matters may be directed to the appropriate Program Area Contacts:

Program Area	Program Area Contact:
Integrated Approaches to Prevent Childhood Obesity	Dr. Deirdra Chester (202) 401-5178; dnchester@nifa.usda.gov Dr. Jane Clary (202) 720-3891; jclary@nifa.usda.gov

PART VIII – OTHER INFORMATION

A. Access to Review Information

Copies of reviews, excluding the identity of reviewers, and a summary of the panel comments will be sent to the applicant PD after the review process has been completed.

B. Use of Funds; Changes

1. Delegation of Fiscal Responsibility

Unless the terms and conditions of the grant state otherwise, the grantee may not, in whole or in part, delegate or transfer to another person, institution, or organization the responsibility for use or expenditure of grant funds.

2. Changes in Project Plans

a. The permissible changes by the grantee, PD(s), or other key project personnel in the approved project grant shall be limited to changes in methodology, techniques, or other similar aspects of the project to expedite achievement of the project's approved goals. If the grantee or the PD(s) is uncertain as to whether a change complies with this provision, the question must be referred to the Authorized Departmental Officer (ADO) for a final determination. The ADO is the signatory of the award document, not the program contact.

b. Changes in approved goals or objectives shall be requested by the grantee and approved in writing by the ADO prior to effecting such changes. In no event shall requests for such changes be approved which are outside the scope of the original approved project.

c. Changes in approved project leadership or the replacement or reassignment of other key project personnel shall be requested by the grantee and approved in writing by the ADO prior to effecting such changes.

d. Transfers of actual performance of the substantive programmatic work in whole or in part and provisions for payment of funds, whether or not Federal funds are involved, shall be requested by the grantee and approved in writing by the ADO prior to effecting such transfers, unless prescribed otherwise in the terms and conditions of the grant award.

e. Awards will normally not be considered for additional funding beyond that approved in an original award. No-cost extensions beyond five years will be granted only under extenuating circumstances, will require prior approval of the Authorized Departmental Officer (ADO), and will be contingent on a satisfactory merit review conducted by NIFA. Standard and Coordinated Agricultural Project (CAP) Grants (including New Investigator and Strengthening eligible grants) may be allowed for a competitive renewal. Renewal applications require full competition with other applications and will be considered provided that 1) performance has been satisfactory, 2) appropriations are available for this purpose, and 3) continued support would be in the best interest of the Federal government and the public.

f. Changes in an approved budget: Unless stated otherwise in the terms and conditions of award, changes in an approved budget must be requested by the grantee and approved in writing by the ADO prior to instituting such changes if the revision will involve transfers or expenditures of amounts requiring prior approval as set forth in the applicable Federal cost principles, Departmental regulations, or grant award.

C. Confidential Aspects of Applications and Awards

When an application results in a grant, it becomes a part of the record of NIFA transactions, available to the public upon specific request. Information that the Secretary determines to be of a confidential, privileged, or proprietary nature will be held in confidence to the extent permitted by law. Therefore, any

information that the applicant wishes to have considered as confidential, privileged, or proprietary should be clearly marked within the application. Such an application will be released only with the consent of the applicant or to the extent required by law. The original electronic application that does not result in a grant will be retained by the Agency for a period of three years. An application may be withdrawn at any time prior to the final action thereon.

D. Regulatory Information

For the reasons set forth in the final Rule-related Notice to 7 CFR part 3015, subpart V (48 FR 29114, June 24, 1983), this program is excluded from the scope of the Executive Order 12372 which requires intergovernmental consultation with State and local officials. Under the provisions of the Paperwork Reduction Act of 1995 (44 U.S.C. chapter 35), the collections of information requirements contained in this Notice have been approved under OMB Document No. 0524-0039.

E. Application Disposition

When each peer review panel has completed its deliberations, the responsible program staff of AFRI will recommend that the project: (a) be approved for support from currently available funds or (b) be declined due to insufficient funds or unfavorable review.

AFRI reserves the right to negotiate with the PD and/or with the submitting organization or institution regarding project revisions (e.g., reductions in the scope of work, funding level, period, or method of support) prior to recommending any project for funding.

An application may be withdrawn at any time before a final funding decision is made regarding the application; however, withdrawn applications normally will not be returned. One copy of each application that is not selected for funding, including those that are withdrawn, will be retained by AFRI for a period of three years.

F. Materials Available on the Internet

AFRI program information will be made available on the NIFA Web site: www.nifa.usda.gov/funding/afri/afri.html. The following are among the materials available on the AFRI More Information Page:

1. More information about upcoming AFRI 2012 Requests for Applications
2. AFRI Abstracts of Funded Projects
3. AFRI Annual Reports

G. Electronic Subscription to AFRI Announcements

If you would like to receive notifications of all new announcements pertaining to AFRI RFA, you can register via Grants.gov at www.grants.gov/search/subscribeAdvanced.do.

- Enter the e-mail address at which you would like to receive the announcements
- Enter "10.310" for *CFDA Number*
- Select "Subscribe to Mailing List"

Other criteria may be selected; however, your e-mail address and the CFDA number are the only data required to receive AFRI announcements. You do not need to be a registered user of Grants.gov to use this service. You may modify your subscriptions or unsubscribe at any time.

H. Definitions

Please refer to [7 CFR 3430, Competitive and Noncompetitive Non-formula Grant Programs--General Grant Administrative Provisions](#) for the applicable definitions for this NIFA Grant Program

For the purpose of this program, the following additional definitions are applicable:

Director means the Director of the National Institute of Food and Agriculture (NIFA) and any other officer or employee of NIFA to whom the authority involved is delegated.

Food and Agricultural Science Enhancement (FASE) Grants means funding awarded to eligible applicants to strengthen science capabilities of Project Directors, to help institutions develop competitive scientific programs, and to attract new scientists into careers in high-priority areas of National need in agriculture, food, and environmental sciences. FASE awards may apply to any of the three agricultural knowledge components (i.e., research, education, and extension). FASE awards include Pre- and Postdoctoral Fellowships, New Investigator grants, and Strengthening grants.

Integrated project means a project incorporating two or three functions of the agricultural knowledge system (research, education, and extension) around a problem or activity.

Limited institutional success means institutions that are not among the most successful universities and colleges for receiving Federal funds for science and engineering research. A list of successful institutions will be provided in the RFA.

Minority-serving institution means an accredited academic institution whose enrollment of a single minority or a combination of minorities exceeds fifty percent of the total enrollment, including graduate and undergraduate and full- and part-time students. An institution in this instance is an organization that is independently accredited as determined by reference to the current version of the Higher Education Directory, published by Higher Education Publications, Inc., 6400 Arlington Boulevard, Suite 648, Falls Church, Virginia 22042.

Minority means Alaskan Native, American Indian, Asian-American, African-American, Hispanic American, Native Hawaiian, or Pacific Islander. The Secretary will determine on a case-by-case basis whether additional groups qualify under this definition, either at the Secretary's initiative, or in response to a written request with supporting explanation.

Multidisciplinary project means a project on which investigators from two or more disciplines collaborate to address a common problem. These collaborations, where appropriate, may integrate the biological, physical, chemical, or social sciences.

Small and mid-sized institutions are academic institutions with a current total enrollment of 17,500 or less including graduate and undergraduate and full- and part-time students. An institution, in this instance, is an organization that possesses a significant degree of autonomy. Significant degree of autonomy is defined by being independently accredited as determined by reference to the current version of the *Higher Education Directory*, published by Higher Education Publications, Inc., 6400 Arlington Boulevard, Suite 648, Falls Church, Virginia 22042 (703-532-2300).

Strengthening Grants means funds awarded to institutions eligible for FASE Grants to enhance institutional capacity, with the goal of leading to future funding in the project area, as well as strengthening the competitiveness of the investigator's research, education, and extension activities. Strengthening grants consist of Standard and Coordinated Agricultural Project Grant types as well as Seed Grants, Equipment Grants, and Sabbatical Grants.

USDA EPSCoR States (Experimental Program for Stimulating Competitive Research) means States which have been less successful in receiving funding from AFRI, having a funding level no higher than the 38th percentile of all States based on a 3-year average of AFRI funding levels, excluding FASE Strengthening funds granted to state agricultural experiment stations and degree-granting institutions in EPSCoR States and small, mid-sized, and minority-serving degree-granting institutions. The most recent list of USDA EPSCoR States is provided in this RFA.

TABLE 1. Most Successful Universities and Colleges Receiving Federal Funds*.

Use to Determine Eligibility for Strengthening Grants

Arizona State University (all campuses)	Pennsylvania State University (all campuses)	University of Massachusetts, Amherst
Baylor College of Medicine	Princeton University	University of Massachusetts, Worcester
Boston University	Purdue University (all campuses)	University of Miami
Brown University	Rutgers, The State University of New Jersey (all campuses)	University of Michigan (all campuses)
California Institute of Technology	Scripps Research Institute, The	University of Minnesota (all campuses)
Carnegie Mellon University	Stanford University	University of Missouri, Columbia
Case Western Reserve University	State University of New York, Stony Brook (all campuses)	University of New Mexico (all campuses)
Colorado State University	Texas A&M University (all campuses)	University of North Carolina, Chapel Hill
Columbia University	University of Alabama, Birmingham	University of Medicine and Dentistry New Jersey
Cornell University (all campuses)	University of Arizona	University of Pennsylvania
Dartmouth College	University of California, Berkeley	University of Pittsburgh (all campuses)
Duke University	University of California, Davis	University of Rochester
Emory University	University of California, Irvine	University of South Florida
Florida State University	University of California, Los Angeles	University of Southern California
George Washington University	University of California, San Diego	University of Texas (all campuses)
Georgetown University	University of California, San Francisco	University of Texas, Austin
Georgia Institute of Technology (all campuses)	University of California, Santa Barbara	University of Texas Health Science Center, Houston
Harvard University	University of Chicago	University of Texas Health Science Center, San Antonio
Indiana University Purdue University Indianapolis	University of Cincinnati (all campuses)	University of Texas M.D. Anderson Cancer Center
Iowa State University	University of Colorado (all campuses)	University of Texas Medical Branch
Johns Hopkins University, The	University Corporation for Atmospheric Research	University of Texas Southwestern Medical Center, Dallas
Louisiana State University (all campuses)	University of Connecticut (all campuses)	University of Utah
Massachusetts Institute of Technology	University of Delaware	University of Virginia (main campus)
Medical College of Wisconsin	University of Florida	University of Washington
Medical University of South Carolina	University of Georgia	University of Wisconsin, Madison
Michigan State University	University of Hawaii, Manoa	Vanderbilt University
Mississippi State University	University of Illinois, Chicago	Virginia Commonwealth University
Mount Sinai School of Medicine	University of Illinois, Urbana-Champaign	Virginia Polytechnic Institute and State University
New York University	University of Iowa	Wake Forest University
North Carolina State University	University of Kansas (all campuses)	Washington University, St. Louis
Northwestern University	University of Kentucky (all campuses)	Woods Hole Oceanographic Institute
Ohio State University (all campuses)	University of Maryland, Baltimore	Yale University
Oregon Health & Science University	University of Maryland, College Park	Yeshiva University
Oregon State University		

*Data obtained from the table of Federal obligations for science and engineering research and development to the 100 universities and colleges receiving the largest amounts, ranked by total amount received in FY 2008 of Federal Science and Engineering Support to Universities, Colleges, and Nonprofit Institutions (National Science Foundation). Campuses that are part of a larger university system as listed in Table 1 may petition for an exemption to this rule (see Part III, B for information).

TABLE 2. Lowest One Third of Universities and Colleges Receiving Federal Funds* .
Use to Determine Eligibility for Possible Waiver of Matching Funds Requirement for Equipment Grants

A. T. Still University of Health Sciences	Greenfield Community College	Radford University
Abilene Christian University	Greenville Technical College	Randolph-Macon College
Adelphi University	Grinnell College	Regis University
Agnes Scott College	Hamline University	Rhode Island College
Aiken Technical College	Hampshire College	Rider University
AK Pacific University	Harford Community College	Roanoke College
Albion College	Harris-Stowe State University	Robert Morris University
Albright College	Hawaii Pacific University	Robeson Community College
Allegheny College	Heidelberg College	Rollins College
Alma College	High Point University	Rust College
American Indian Higher Ed. Consortium	Hinds Community College (Raymond, MS)	Saginaw Valley State University
American University	Hiram College	Salem State College
American University Puerto Rico	Hood College	Salisbury University
Andrews University	Howard Community College	San Diego Mesa College
Angelo State University	Hudson Valley Community College	Sarah Lawrence College
Anna Maria College	Huston-Tillotson University	Savannah State University
Arapahoe Community College	Illinois College of Optometry	Savannah Technical College
Arcadia University	Illinois Wesleyan University	Scripps College
Arizona Western College	Indiana University-Purdue University Ft. Wayne	Seattle Community College (all campuses)
Arkansas Tech University	Indiana Wesleyan University	Seattle University
Armstrong Atlantic State University	Institute of American Indian and Alaska Native Culture and Arts Development	Seminole State College
Art Center College of Design	Iona College	Shawnee State University
Ashland University	Iowa Lakes Community College	Simmons College
Assumption College	Ithaca College	Skagit Valley College
Augsburg College	Ivy Tech Community College Indiana (all campuses)	Slippery Rock University Pennsylvania
Augustana College (Rock Island, IL)	J. F. Drake State Technical College	Sojourner-Douglass College
Augustana College (Sioux Falls, SD)	Jamestown Community College	Sonoma State University
Austin Community College	Jarvis Christian College	South Florida Community College
Austin Peay State University	John Carroll University	South Texas College
Avila University	Johnson County Community College	Southeast Missouri State University
Baker University	Kalamazoo College	Southeastern Oklahoma State University
Baltimore City Community College	Kankakee Community College	Southern New Hampshire University
Bard College at Simon's Rock	Kansas City University of Medicine and Biosciences	Southern Oregon University
Baton Rouge Community College	Keene State College	Southern Polytechnic State University
Bay Mills Community College	Kenyon College	Southwest FL College
Bellevue Community College	Kettering University	Southwestern College (Chula Vista, CA)
Belmont University	Keweenaw Bay Ojibwa Community College	Southwestern Oklahoma State University
Beloit College	King College	Southwestern University
Benedictine University	Kutztown University Pennsylvania	Springfield College (Springfield, MA)
Benjamin Franklin Institute of Technology	LA Technical College Florida Parishes Campus	St. Augustine's College
Berea College	Lake City Community College	St. Catharine College
Bethel University (all campuses)	Lake Forest College	St. Lawrence University
Bethune-Cookman University	Lake Superior State University	St. Mary's University (San Antonio, TX)
Birmingham-Southern College	Lansing Community College	St. Michael's College
Bismarck State College	Laramie County Community College	St. Norbert College
Black Hawk College (all campuses)	Lasell College	St. Peter's College
Black Hills State University	Lawrence University	St. Vincent College
Bloomsburg University Pennsylvania	Lawson State Community College	St. Xavier University
Bridgewater State College	Lebanon Valley College	State Ctr. Community College District
Brookdale Community College	LeTourneau University	State University System Florida (all campuses)
Butler University	Liberty University	Stevenson University
Butte College	Little Priest Tribal College	Stillman College
Cabrini College	Longwood University	Stonehill College
California Lutheran University	Loyola College	SUNY College Brockport
California State University, Bakersfield	Loyola University New Orleans	SUNY College Cortland
Cameron University	Lyndon State College	SUNY College Geneseo
Canisius College	Lyon College	SUNY College of Agriculture and Technology Morrisville
Carl Albert State College	Macalester College	SUNY College Oneonta
Carlos Albizu University (San Juan, PR)	Macomb Community College	SUNY College Potsdam
Carthage College	Madison Area Technical College	SUNY Empire State College
Casper College	Mansfield University Pennsylvania	SUNY Farmingdale
Central College	Marian College Fond du Lac	SUNY Fredonia
Central FL Community College	Marion Military Institute	SUNY Institute of Technology Utica-Rome
Central Georgia Technical College	Martin University	SUNY Purchase College
Central MO State University	Mary Baldwin College	Sweet Briar College
Centre College	Marymount University	Tacoma Community College
Charleston Southern University	Massachusetts Bay Community College	Tarleton State University

Chatham College	Massachusetts College of Liberal Arts	Taylor University
Christian Brothers University	McKendree University	Texas College
Clarion University Pennsylvania (all campuses)	McNeese State University	Texas Wesleyan University
Clark College	Mercyhurst College	Touro College
Cleveland State Community College	Mesa State College	Tri-College University
College Idaho	Mesabi Range Community and Technical College	Troy University main campus
College New Jersey, The	Metropolitan State College Denver	Truman State University
College of Notre Dame Maryland	Middlesex Community College	University Alaska Southeast
College of St. Catherine	Mid-South Community College	University Arkansas Ft. Smith
College of St. Rose	Midwestern University (Chicago, IL)	University Central Oklahoma
College of St. Scholastica	Millersville University Pennsylvania	University Consortium for Geographic Information Science
College of the Atlantic	Milwaukee School of Engineering	University Houston Clear Lake
College Southern Maryland	Minnesota State College Southeast Technical College	University Illinois Springfield
College Wooster	Misericordia University	University Louisiana Monroe
Colorado College	Monroe Community College	University Maine Augusta
Columbus State University	Mountain State University	University Maine Machias
Community College Rhode Island	MT Tech College of Technology	University Maryland University College
Community-Technical Colleges	Mt. Hood Community College	University New Haven
Concordia Theological Seminary	Mt. St. Mary's University	University Portland
Concordia University (River Forest, IL)	Mt. Wachusett Community College	University Puget Sound
Cooper Union	Muskingum College	University Redlands
Covenant College	National University of Health Sciences	University Sagrado Corazon
CUNY Borough of Manhattan Community College	National-Louis University	University South Dakota (all campuses)
CUNY Medgar Evers College	Naval Postgraduate School	University Tampa
CUNY New York City College of Technology	Neumann College	University Turabo
Daemen College	New Jersey School of Osteopathic Medicine	University West Florida
Daytona Beach Community College	New Mexico Military Institute	University WI-Green Bay
Defense Acquisition University	New York Law School	University Wisconsin-Platteville
Del Mar College	NHTI, Concord's Community College	University Wisconsin-River Falls
Denison University	Nicholls State University	University Wisconsin-Stout
DePauw University	Normandale Community College	University Wisconsin-Superior
Des Moines University	North Central College	University Wisconsin-Whitewater
Dickinson State University	North Dakota State College of Science	Upper Midwest Aerospace Consortium
Dixie State College Utah	North Georgia College & State University	Ursinus College
Doane College	North Hennepin Community College	Utah Valley State College
Dominican University California	Northampton County Area Community College	Valdosta State University
Dowling College	Northern Essex Community College	Valparaiso University
Drury University	Northern WY Community College District	Vermont Technical College
East Mississippi Community College	Northwestern Health Sciences University	Virginia Military Institute
Eastern Mennonite University	Northwestern Michigan College	Virginia Union University
Eastern Oregon University	Northwestern OK State University	Wabash College
El Camino College Compton Center	Northwestern State University	Wake Technical Community College
Elizabethtown College	Norwich University	Waldorf College
Elmhurst College	Occidental College	Warren Wilson College
Elon University	Ohio Northern University	Washington and Lee University
Emporia State University	Orangeburg-Calhoun Technical College	Washington College
Erskine College	Oregon College of Oriental Medicine	Wayne State College
Everett Community College	Our Lady of the Lake University	Webb Institute
Fayetteville Technical Community College	Pace University (all campuses)	Western Connecticut State University
Finger Lakes Community College	Pacific Lutheran University	Western New England College
Fitchburg State College	Pacific University	Western State College Colorado
Flathead Valley Community College	Palau Community College	Westminster College (Salt Lake City, UT)
Florence-Darlington Technical College	Pasadena City College	Westmont College
Florida Gulf Coast University	Paul Smith's College of Arts and Sciences	Wheaton College (Norton, MA)
Fox Valley Technical College	Pearl River Community College	Wheaton College (Wheaton, IL)
Francis Marion University	Peninsula College	White Earth Tribal and Community College
Franciscan University Steubenville	Pepperdine University Malibu	Whitman College
Franklin W. Olin College of Engineering	Plymouth State University	Wiley College
Ft. Hays State University	Polk Community College	Wilkes University
Gem National Consortium for Graduate Degrees for Minorities in Engineering and Science, InCollege	Prescott College	William Paterson University New Jersey
Geophysical Institute, UAF	Prince George's Community College	Winona State University
Gonzaga University	Quinnipiac University	Wittenberg University
Gordon College (Wenham, MA)	Quinsigamond Community College	York Technical College
Goucher College		

*Data obtained from the table of Federal obligations for science and engineering research and development to universities and colleges, ranked by total amount received, by agency from the FY 2008 Survey of Federal Science and Engineering Support to Universities, Colleges, and Nonprofit Institutions (National Science Foundation).

FIGURE 1. Flow Chart for Strengthening Grant Eligibility.

